

What is claimed is:

1. A photosensor device, which comprises a light-applying fiber to apply an inspection light to a subject to be inspected; a light-receiving fiber to receive a reflected light from the subject to be inspected; a laser beam source to emit the inspection light to the light-applying fiber; a photosensor to receive the reflected light via the light-receiving fiber; and a casing enclosing the light-applying fiber, the light-receiving fiber, the laser beam source and the photosensor.

2. The photosensor device according to Claim 1, the photosensor device comprises fiber arrays obtained by disposing plural channels of sensor units in the casing, wherein the sensor unit as one channel comprises the light-applying fiber, the light-receiving fiber which forms a pair with the light-applying fiber, the laser beam source connected to the light-applying fiber, and the photosensor connected to the light-receiving fiber.

3. A disk inspection apparatus for irradiating an inspection light on a surface of a rotating disk and inspecting surface conditions of the disk based on a reflected light, which comprises a turning table for rotating the disk fitted thereon; a photosensor body disposed opposite to the surface of the disk; and a transfer means for reciprocally transferring the photosensor body in a direction perpendicular to a rotating direction of the disk along the surface of the disk; wherein the photosensor body comprises a fiber array constructed by arranging sensor units as multi-channels, each of the sensor

units comprising as one unit, a light-applying fiber, a light-receiving fiber which forms a pair with the light-applying fiber, a laser beam source connected to the light-applying fiber, and a photosensor connected to the light-receiving fiber.

4. The disk inspection apparatus according to Claim 3, wherein a plurality of the fiber arrays are arranged in plural lines in such a state that phases of adjacent fiber arrays are shifted.